

VISITING COMMITTEE ON ADVANCED TECHNOLOGY (VCAT) SUBCOMMITTEE ON BIOSCIENCES AND HEALTH

National Institute of Standards and Technology

Gaithersburg, MD

December 10, 2007

227/A202

- 9:00 a.m. Welcome, Introductions, and Agreement on Plans for the Day**
- 9:15 a.m. Overview of Inventory - NIST Activities in Biosciences and Health**
- 9:45 a.m. Roundtable Discussions of NIST Activities in Major Program Areas**
- Diagnostics and Therapy
 - Biomaterials
 - Healthcare-IT
- 1:00 p.m. Review of Bioimaging Initiative Program**
- Quantitative Medical Imaging
 - Quantitative Imaging of Cells and Tissue
 - Standards for Validation of Software
- 3:00 p.m. Plans for Program Expansion**
- 5:00 p.m. Adjourn**

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9:15 a.m. **Overview of Inventory - NIST Activities in Biosciences and Health**

9:45 a.m. **Roundtable Discussions of NIST Activities in Major Program Areas**

- Diagnostics and Therapy [Willie May and Bill Ott]
- Biomaterials [Eric Amis]
- Healthcare-IT [Cita Furlani]

There will be 45 min for discussion of each of the three program areas

- *Why did we choose this particular program area?*
 - *What were/are the drivers?*
- *How do we prioritize needs within?*
- *Funding profile (STRS, OA, E&I, etc.)?*
- *What have we accomplished?*
- *Where are we going and why should we continue work in this area?*

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1:00 p.m. **Review of Bioimaging Initiative Program**

- **Quantitative Medical Imaging**
 - MRI [John Moreland]
 - PET-CT [Lisa Karam]

- **Quantitative Imaging of Cells and Tissue**
 - Cells [Anne Plant]
 - Tissues [Marc Cicerone]

- **Standards for Validation of Software** [Mary Brady]

Each talk to be no more than 15 min with 5 min for questions

- *What's the problem?*
- *Who cares?*
- *What will NIST deliver?*
- *Progress to date*
- *Potential impact of NIST work*

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3:00 p.m. **NIST Plans for Program Expansion**

- **FY09 Initiative**
 - Measurements and Standards to Accelerate Innovation in the Biosciences

- **Priority Assessment Activities**
 - USMS
 - 2008 Symposium
 - OA Stakeholder outreach
 - Input from thought leaders

- **Post FY09 Priorities**
 - Medical Imaging
 - Protein Metrology
 - Neutrons in Biology
 - functioning of membrane proteins